

U.S. Appln. No. 09/116,124
Reply to Office Action dated May 17, 2006

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IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

1. (Previously Presented) A transmitter system for transmitting program related information relating to program information, comprising:
 - generating means for generating said program related information and layout information relating to displaying said program related information; and
 - transmitting means for transmitting said program related information and said layout information separately;
 - whereby said layout information includes information for initiating an operation in response to selection of a displayed item; and
 - whereby the displaying of said program related information includes partitioning a display space according to a hierarchical structure having at least three levels, a main page level, a box level and a cell level, wherein main pages are linked to boxes via main-box link information and boxes are linked to cells via box-cell link information; and
 - whereby each main page is associated with a main layout tag that includes a display position for said page and an ID of a box composing the page, each box is associated with a box layout tag that includes a display position for said box and an ID of a cell composing the box, and each cell is associated with a cell layout tag that includes an ID of a data format of the cell, a display position of the cell, and one or more IDs of information related to the cell,

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wherein said program related information and said layout information are divided into a first part and a plurality of second parts,

wherein each first part includes identification information for identifying the program related information or the display related layout information, and

wherein the plurality of second parts are each composed of label data for identifying a type of block data, size data, and the block data, and

wherein each of the plurality of second parts is further divided into a third part composed of identification information for identifying a type of second block data and second size data and a plurality of fourth parts composed the second block data.

2. (Canceled)

3. (Canceled)

4. (Previously Presented) A receiver system for receiving program related information relating to program information, comprising:

receiving means for separately receiving said program related information and layout information relating to displaying said program related information,

wherein said program related information and said layout information are divided into a first part that and a plurality of second parts,

wherein each first part includes identification information for identifying the program related information or the display related layout information, and

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wherein the plurality of second parts are each composed of label data for identifying a type of block data, size data, and the block data,

wherein each of the plurality of second parts is further divided into a third part composed of identification information for identifying a type of second block data and second size data and a plurality of fourth parts composed the second block data; and

generating means for generating fourth information for displaying said program related information based on said program related information and said layout information;

whereby said layout information includes information for initiating an operation in response to selection of a displayed item; and

whereby the displaying of said program related information includes partitioning a display space according to a hierarchical structure having at least three levels, a main page level, a box level and a cell level, wherein main pages are linked to boxes via main-box link information and boxes are linked to cells via box-cell link information; and

whereby each main page is associated with a main layout tag that includes a display position for said page and an ID of a box composing the page, each box is associated with a box layout tag that includes a display position for said box and an ID of a cell composing the box, and each cell is associated with a cell layout tag that includes an ID of a data format of the cell, a display position of the cell, and one or more IDs of information related to the cell.

5. (Previously Presented) The receiver system according to Claim 4, further comprising:

first separating means for separating said program related information and said layout information into a first part containing identification information for identifying said

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program related information and said layout information and a second part composed of actual data;

second separating means for separating said second part into a third part comprising identification information for identifying said second part and a fourth part composed of actual data; and

retrieving means for retrieving data of said second part and said fourth part of said program related information and said layout information based on said identification information.

6. (Previously Presented) The receiver system according to Claim 5, further comprising updating means for updating said second part and said fourth part of said program related information and said layout information based on said identification information.

7. (Original) The receiver system according to Claim 5, further comprising display control means for displaying a first window on a predetermined screen and displaying data of said fourth part within said first window.

8. (Previously Presented) A transmitting method for transmitting program related information relating to program information, comprising the steps of:

generating said program related information and layout information relating to displaying said program related information; and

transmitting said program related information and said layout information separately;

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said generating step composing said program related information and said layout information,

wherein said program related information and said layout information are divided into a first part and a plurality of second parts,

wherein each first part includes identification information for identifying the program related information or the display related layout information, and

wherein the plurality of second parts are each composed of label data for identifying a type of block data, size data, and the block data,

wherein each of the plurality of second parts is further divided into a third part composed of identification information for identifying a type of second block data and second size data and a plurality of fourth parts composed the second block data;

whereby said layout information includes information for initiating an operation in response to selection of a displayed item; and

whereby the displaying of said program related information includes partitioning a display space according to a hierarchical structure having at least three levels, a main page level, a box level and a cell level, wherein main pages are linked to boxes via main-box link information and boxes are linked to cells via box-cell link information; and

whereby each main page is associated with a main layout tag that includes a display position for said page and an ID of a box composing the page, each box is associated with a box layout tag that includes a display position for said box and an ID of a cell composing the box, and each cell is associated with a cell layout tag that includes an ID of a data format of the cell, a display position of the cell, and one or more IDs of information related to the cell.

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9. (Previously Presented) A receiving method for receiving program related information relating to program information, comprising the steps of:

receiving separately said program related information and layout information relating to displaying said program related information,

wherein said program related information and said layout information are each divided into a first part and a plurality of second parts,

wherein each first part includes identification information for identifying the program related information or the display related layout information, and

wherein the plurality of second parts are each composed of label data for identifying a type of block data, size data, and the block data,

wherein each of the plurality of second parts is further divided into a third part composed of identification information for identifying a type of second block data and second size data and a plurality of fourth parts composed the second block data; and

generating fourth information for displaying said program related information based on said program related information and said layout information;

whereby said layout information includes information for initiating an operation in response to selection of a displayed item; and

whereby the displaying of said program related information includes partitioning a display space according to a hierarchical structure having at least three levels, a main page level, a box level and a cell level, wherein main pages are linked to boxes via main-box link information and boxes are linked to cells via box-cell link information; and

whereby each main page is associated with a main layout tag that includes a display position for said page and an ID of a box composing the page, each box is associated

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with a box layout tag that includes a display position for said box and an ID of a cell composing the box, and each cell is associated with a cell layout tag that includes an ID of a data format of the cell, a display position of the cell, and one or more IDs of information related to the cell.

10. (Canceled)

11. (Canceled)

12. (Previously Presented) The receiver system according to Claim 4, further comprising second generating means for generating fifth information from said program related information and said layout information.

13. (Previously Presented) The receiving method according to Claim 9, further comprising a second generating step for generating fifth information from said program related information and said layout information.

14. (Canceled)

15. (Previously Presented) The receiver system according to Claim 5, wherein a first window is composed of one or more boxes.